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Figure 1

1 2 3 4 5

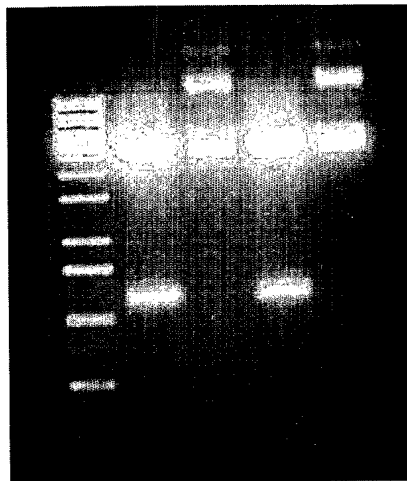
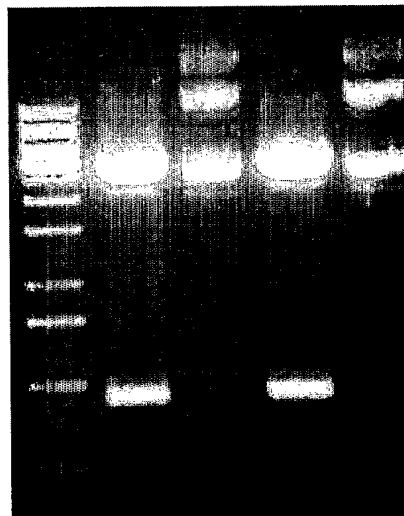


Figure 2

1 2 3 4 5



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Figure 3A

Query: 40 EGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVRAAELAGVLEATAAAKTAV 99
 E RAAELA +LEATA+AK+ EQD +E RAAELA LEATAAAK +
 Sbjct: 712 EERAAELASQLEATAAAKSSAEQDRENT RATLEQQLRSEERAAELASQLEATAAAKMSA 771

Query: 100 EQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQXXXXXXXXXXXXXXXXXXXX 159
 EQ+RE TRA L K S EQ
 Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 160 XXXXXXXXXKSTAAVKSAMEQDRENT RAT 187
 +ST A K + EQDRE+TRAT
 Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRAT 859

Figure 3B

Query: 29 EQEREKTRTAL E-----GRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVR 81
 EQ+RE TR LE RAAELA +LEATA+AK EQD +E R
 Sbjct: 733 EQDRENT RATLEQQLRSEERAAELASQLEATAAAKMSAEQDRENT RATLEQQLRDSEER 792

Query: 82 AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141
 AAELA LE+T AAK + EQ+RE TRA L K S EQ
 Sbjct: 793 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENT RAT 187
 +ST A K + EQDRE+TRAT
 Sbjct: 853 RESTRATLEQQLRSEERAAELASQLESTTAAKMSAEQDRESTRAT 898

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Figure 3C

Query: 29 EQEREKTRTALEG-----RAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVR 81
 EQ+RE TR LE RAAELA +LE+T +AK EQD +E R

Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 82 AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141
 AAELA LE+T AAK + EQ+RE TRA L K S EQ

Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRSEERAAELASQLESTTAAKMSAEQD 891

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTA AVKSAMEQDRENT RA 186
 ++TAA KS+ EQDRENT RA

Sbjct: 892 RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENT RA 936

Figure 3D

Query: 40 EGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVRAAELAGVLEATAAAKTAV 99
 E RAAELA +LEATA+AK+ EQD +E RAAELA LEATAAAK +

Sbjct: 712 EERAAELASQLEATAAAKSSAEQDRENT RATLEQQLRSEARAAELASQLEATAAAKMSA 771

Query: 100 EQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQXXXXXXXXXXXXXXXXXXXXX 159
 EQ+RE TRA L K S EQ

Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 160 XXXXXXXXKSTA AVKSAMEQDRENT RAT 187
 +ST A K + EQDRE+TRAT

Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRAT 859

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Figure 3E

Query: 29 EQEREKTRTALE-----GRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVR 81
 EQ+RE TR LE RAAELA +LEATA+AK EQD +E R

Sbjct: 733 EQDRENT RATLEQQLRRESEERAAELASQLEATAAAKMSAEQDRENT RATLEQQLRDSEER 792

Query: 82 AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141
 AAELA LE+T AAK + EQ+RE TRA L K S EQ

Sbjct: 793 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENT RAT 187
 +ST A K + EQDRE+TRAT

Sbjct: 853 RESTRATLEQQLRRESEERAAELASQLESTTAAKMSAEQDRESTRAT 898

Figure 3F

Query: 29 EQEREKTRTALEG-----RAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVR 81
 EQ+RE TR LE RAAELA +LE+T +AK EQD +E R

Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 82 AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141
 AAELA LE+T AAK + EQ+RE TRA L K S EQ

Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRRESEERAAELASQLESTTAAKMSAEQD 891

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENT RA 186
 ++TAA KS+ EQDRENT RA

Sbjct: 892 RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENT RA 936

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Figure 4

LCIMM	121	GAGCAGCAGCTTCGCGAATCCGAGGCGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCC	180
KEIMM	1	-----	1
DDIMM	1	GAGCAGCAGCTTCGTGAATCCGAGGCGCGCGCTGCGGAGCTGAAAGCCGAGCTGGAGGCC	60
LCIMM	181	ACTGCTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTAGAG	240
KEIMM	1	-----GAG	3
DDIMM	61	ACTGCTGCTGCGAAGACGTGGTGAGCAGGAGCGTGAGAAGAC-----GAG	107
LCIMM	241	CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGCGAGCCAGCTGGAGTCCACT	300
KEIMM	4	CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGATGCCGAAGTTAGAGGCGACT	63
DDIMM	108	GA-CGGCTCTG-----GAGGCGCGCGCTGCGGAGCTGGCTCCAAACTGGAGGCGACT	159
LCIMM	301	ACTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCACGAGGGCCACGCTAGAGCAG	360
KEIMM	64	GCTGCTGCGAAGTTCGTCCGCGGAGCAGGACCGCGAGAACACGAGGGCCACGTTGGAGCAG	123
DDIMM	160	GCTTCTGCGAAGAATTGCTAGAGCAGGACCGCGAGAGGACGAGGGCCACCTTGGAGGAA	219
LCIMM	361	CAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGCGAGCCAGCTGGAGTCCACTACT	420
KEIMM	124	CAGCTTCGCGAATCCGAGGAGCACGCTGCGGAGCTGAAGGCCAGCTGGAGTCCACTGCT	183
DDIMM	220	CGACTTCGTATTGCTGAGGTGCGCGCTGCGGAGCTGCGCAGGAGTGCTGGAGGCCACTGCT	279
LCIMM	421	GCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCACGAGGGCCACGCTAGAGCAGCAG	480
KEIMM	184	GCTGCGAAGACCTCCGCGGAGCAGGACCGCGAGAACACGAGGGCCCGCTTGGAGCAGCGG	243
DDIMM	280	GCTGCGAAGACCGCGGTGGAGCAGGAGCGTGAGAGGACGAGGGCCGCTTGGAGCAGCAG	339
LCIMM	481	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGTCCACTACTGCT	540
KEIMM	244	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCCACTGCTGCT	303
DDIMM	340	CTCCGCGAATCCGAGGCGCGCGCTGCGGAGCTGGCTGCGCAGCTGGAAGCCGCTGCTGCG	399
LCIMM	541	GCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCACGAGGGCCACGCTAGAGCAGCAGCTT	600
KEIMM	304	GCGAAGTCGTCCGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTAGAGCAGCAGCTT	363
DDIMM	400	GCGAAGACGTGCTGGAGCAGGAGCGTGAGAACACGAGGGCCACCTTGGAGGAGCGGTTG	459
LCIMM	601	CGTGACTCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCCACTGCTGCTGCG	660
KEIMM	364	CGCGAATCCGAGGCGCGCGCTGCGGAGCTGGCGAGTCAGCTGGAGTCCACTGCTGCTGCG	423
DDIMM	460	CGGCTCGCTGAGGTCCGCGCTGCGGAGCTGGCAGCGCGGCTAAAGAGCACTGCTGCTGTT	519
LCIMM	661	AAGTCGTCCGCGGAGCAGGACCGCGAGAACACGAGGGCCCGCTTGGAGCAGCAGCTTCGT	720
KEIMM	424	AAGTCGTCCGCGGAGCAGGACCGCGAGAACACGAGGGCCACG-----	465
DDIMM	520	AAGTCGCGATGGAGCAGGACCGCGAGAACACGAGGGCCACG-----	561

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Figure 5

LCIMM 1 LEQQLRESEERAAELASQLEATAAAKSSAEQDRENT RATLEQQLRESEERAAELASQLEA 60
 KEIMM 1 -EQQLRDSEERAAELMRKLEATAAAKSSAEQDRENT RATLEQQLRESEERAAELKAOLES 59
 DDIMM 1 -EQQLRESEERAAELKAELEATAAAKTSVEQERKTRTALEG-----RAAELARKLEA 52

LCIMM 61 TAAAKMSAEQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQ 120
 KEIMM 60 TAAAKTSAEQDRENT RAALQRLRESEERAAELASQLEATAAAKSSAEQDRENT RATLEQ 119
 DDIMM 53 TASAKNLVEQDRERTRATLEERLRLAEVRAAELAGVLEATAAAKTAVEQERERTRAALQ 112

LCIMM 121 QLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTA 180
 KEIMM 120 QLRESEERAAELASQLESTTAAKSSAEQDRENT RAT----- 155
 DDIMM 113 QLRESEERAAELAAQLEAAAAKTAVEQERENT RATLEERLRLAEVRAAELAAARKSTAA 172

LCIMM 181 AKMSAEQDRESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENT RAALQQLR 240
 KEIMM 155 ----- 155
 DDIMM 173 VKSAMEQDRENT RAT----- 187

Figure 6

LCIMM 1 LEQQLRESEERAAELASQLEATAAAKSSAEQDRENT RATLEQQLRESEERAAELASQLEA 60
 DDIMM 1 -----EQQLRESEERAAELKAELEA 20

LCIMM 61 TAAAKMSAEQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQ 120
 DDIMM 21 TAAAKTSVEQERKTRTALEG-----RAAELARKLEATASAKNLVEQDRERTRATLEE 73

LCIMM 121 QLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTA 180
 DDIMM 74 RLRLAEVRAAELAGVLEATAAAKTAVEQERERTRAALQQLRESEERAAELAAQLEAAAA 133

LCIMM 181 AKMSAEQDRESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENT RAALQQLR 240
 DDIMM 134 AKTSVEQERENT RATLEERLRLAEVRAAELAAARKSTAAVKSAMEQDRENT RAT----- 187

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Figure 7

KEIMM 1 EQQLRDSEERAELMRKLEATAAAKSSAEQ----- 30
 DDIMM 1 EQQLRESEARAELKAELEATAAAKTSVEQEREKTRTALEGRAELARKLEATASAKNLV 60

KEIMM 30 --DRENT RATLEEQOLRESEEHAAELKAQLESTAAAKTSAEQDRENT RAALEQRLRESEER 88
 DDIMM 61 EQDRERTRATLEERLRIAEVRAAELAGVLEATAAAKTAVEQERERTRAALEQOLRESEAR 120

KEIMM 89 AAELASQLEATAAAKSSAEQDRENT RATLEEQOLRESEARAELASQLESTAAAKSSAEQD 148
 DDIMM 121 AAELAAQLEAAAAAKTSVEQERENT RATLEERLRILA EVRAAELAA RLKSTAAVKSA MEQD 180

KEIMM 149 RENT RAT 155
 DDIMM 181 RENT RAT 187

Figure 8

1 10 20 30 39

KEQQLRDSEETRAAELKAELEATAAAKTSVEQEREKTRTAL
 L GRAAELARKLEATASAKNLVEQDRERTRATLERLRIS
 AV GV KSA V TSM E N A QQ E
 SA AQ S L

Figure 9

1 10 20 30 39

LEQQLRDSEERAELMRKLEATAAAKSSAEQDRENT RAT
 R E AH KAQS T A
 AS

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Figure 10

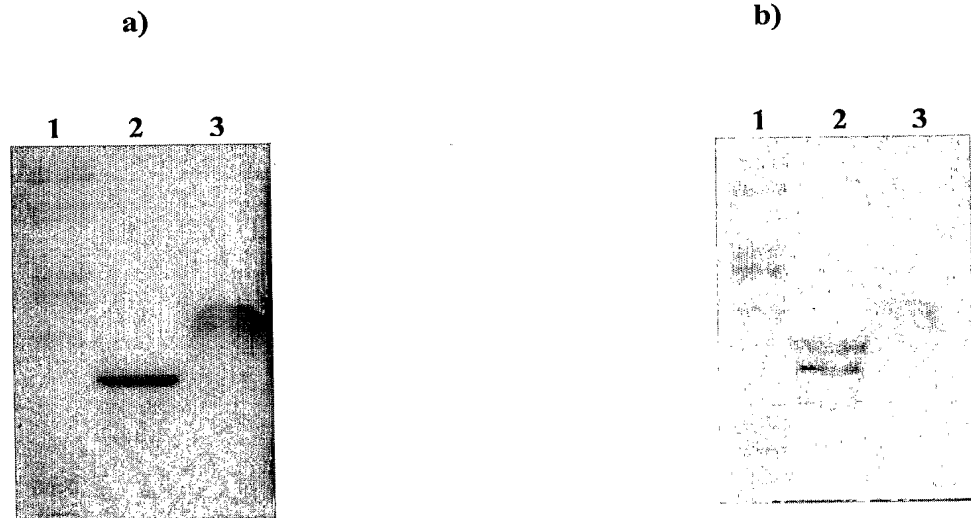
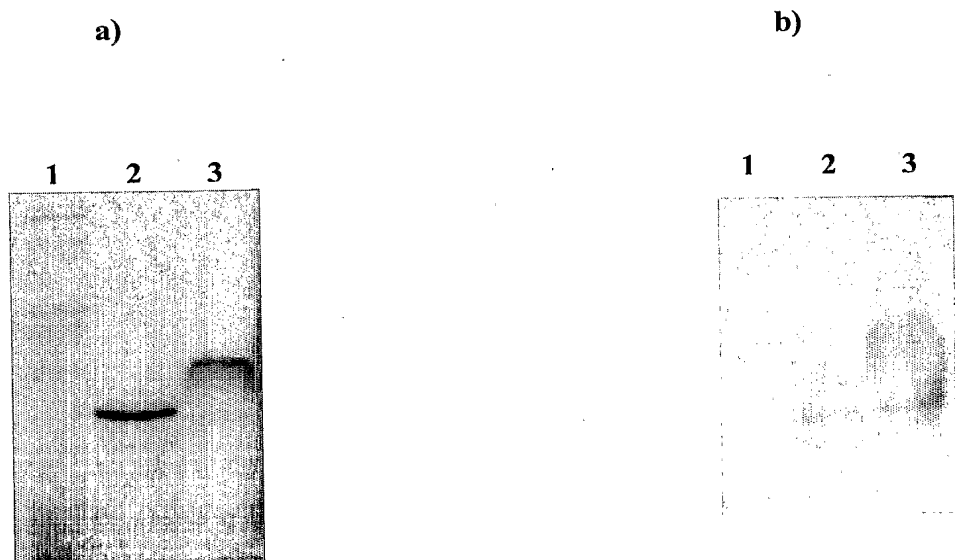


Figure 11



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Figure 12

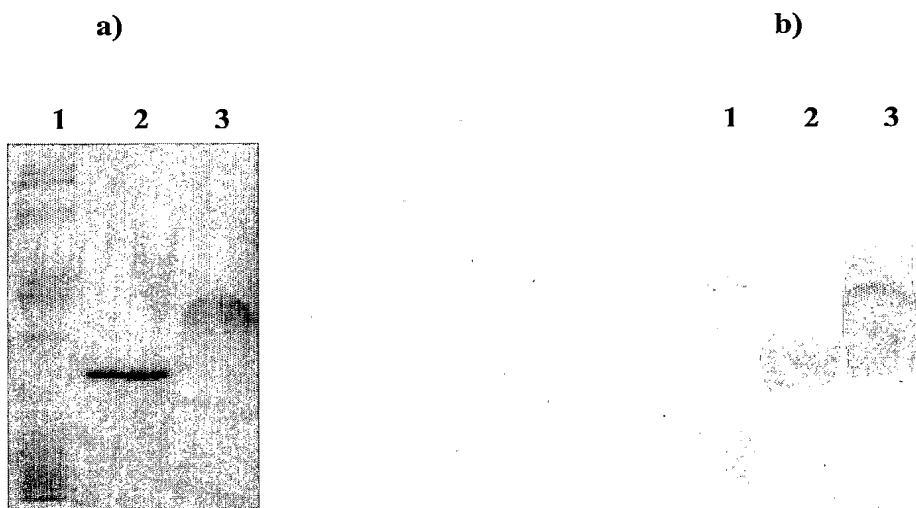
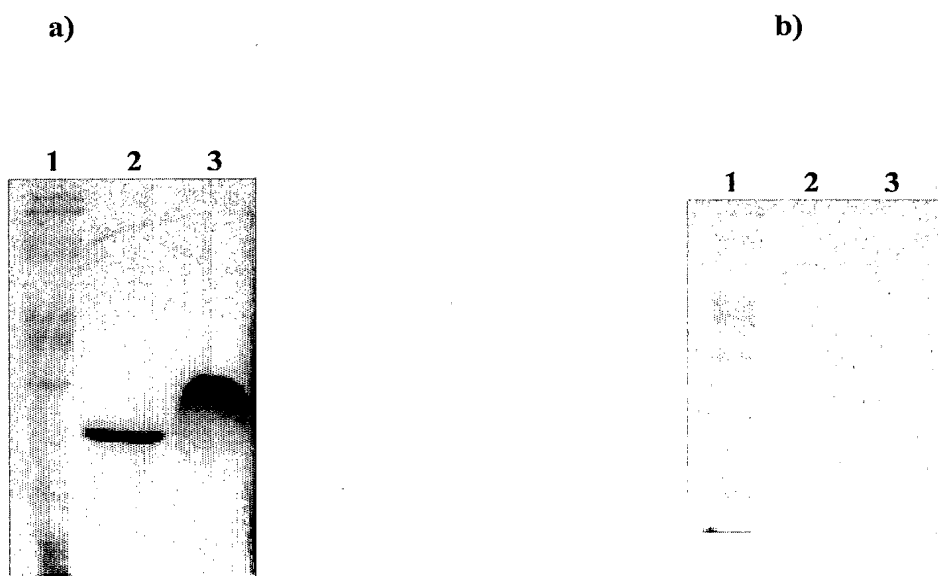
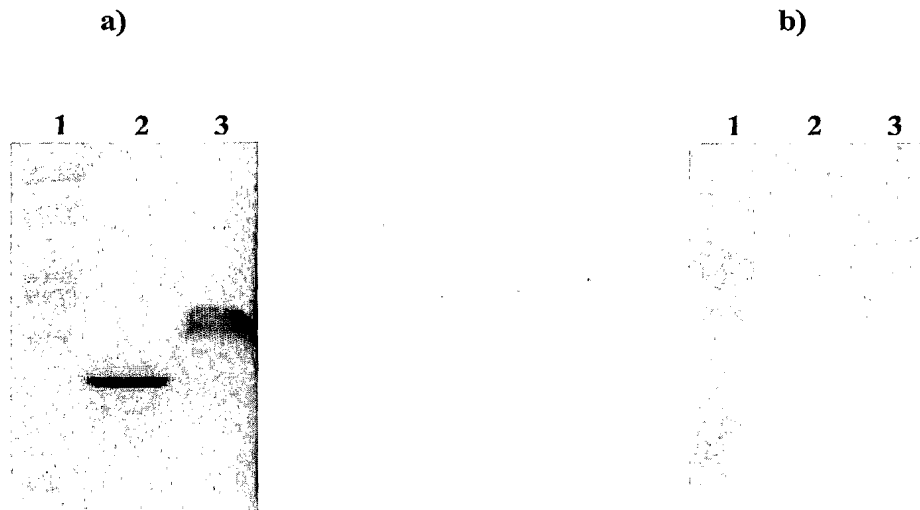
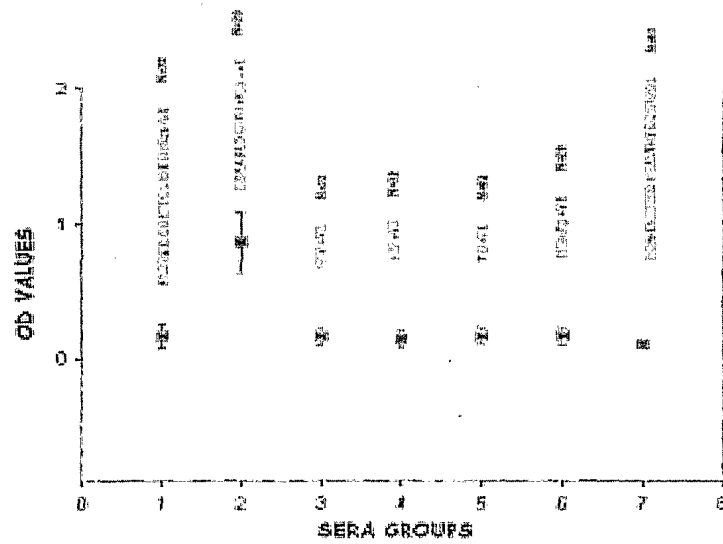


Figure 13



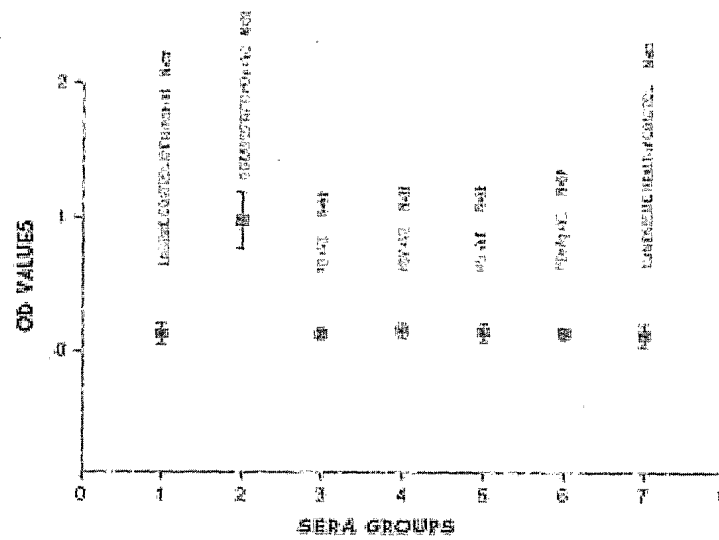
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Figure 14**Figure 15**

Mean	0.1670	0.8665	0.1634	0.1396	0.1663	0.1636	0.1080
Std.Dev	0.0882	0.2182	0.0598	0.0584	0.0534	0.0615	0.0295

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Figure 16



Mean	0.1290	0.9730	0.1300	0.1545	0.1456	0.1363	0.1219
Std. Dev	0.0716	0.2096	0.0419	0.0548	0.0705	0.0456	0.0796